UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/550,259	09/21/2005	Masahiro Hagiwara	Q90407	1176
23373 SUGHRUE MI	7590 08/28/200 ON, PLLC	EXAMINER		
2100 PENNSY	LVANIA AVENUE, N	NAKARANI, DHIRAJLAL S		
SUITE 800 WASHINGTON, DC 20037			ART UNIT	PAPER NUMBER
			1794	
			MAIL DATE	DELIVERY MODE
			08/28/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/550,259	HAGIWARA ET AL.			
		Examiner	Art Unit			
		D. S. Nakarani	1794			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) 又	Responsive to communication(s) filed on <u>12 M</u>	av 2008				
-		action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
٠,١	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
4)🖂	Claim(s) <u>1-5 and 8-26</u> is/are pending in the app	olication.				
•	4a) Of the above claim(s) is/are withdrawn from consideration.					
	5) Claim(s) is/are allowed.					
	6)⊠ Claim(s) <u>1-5 and 8-26</u> is/are rejected.					
· ·	Claim(s) is/are objected to.					
-	Claim(s) are subject to restriction and/o	r election requirement.				
	on Papers					
		r				
•	9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
.0/						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
	-	priority under 35 LLS C & 110(a)	L(d) or (f)			
	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:					
a)	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No3. Copies of the certified copies of the priority documents have been received in this National Stage					
	application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
Oce the attached detailed Office action for a list of the certified copies not received.						
_						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application						
Paper No(s)/Mail Date 6) Other:						

Application/Control Number: 10/550,259 Page 2

Art Unit: 1794

DETAILED ACTION

1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

2. Claims 1-5, 9-12, 14-21 and 24-26 are rejected under 35 U.S.C. 102(b) as being anticipated by Kondo (U. S. Patent 6,329,061 B2).

Kondo discloses a dispersion comprising tin doped indium oxide, plasticizer such as triethyleneglycol-di-2-ethylbutyrate, alcohol such as ethanol and polyvinyl butyral resin. An interlayer formed using the dispersion and the glass laminate formed with the laminate (Col. 7, line 5 to col. 8, line 10, specifically, Col. 7, line 60 to col. 8, line 9). The claimed properties specifically not disclosed are deemed to be inherent properties since plasticizer, solvent and particle size of tin doped indium oxide are same as disclosed in the instant disclosure.

3. Claims 1-5 and 8-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kondo (U. S. Patent 6,329,061 B2) in view of Kobata et al (U. S. Patent 6,673,456 B1).

Kondo which has been discussed above in paragraph 3, suggest addition of other additives to the dispersion. However Kondo fails to identify other additives such as adhesion control agent, chelate, acid etc.

Kobata et al disclose interlayer and the glass laminate. The interlayer comprises polyvinyl butyral, plasticizer, chelate, organic acid etc. Kobata et al disclose dispersing

tin doped indium oxide particles in the plasticizer or solvent, chelate, dispersion stabilizer, adhesion control agent, organic acid etc. (Col. 2, line 60 to col. 19, line 20 and Examples).

Page 3

Therefore it would have been obvious to a person of ordinary skill in the art at the time of this invention made to utilize disclosure of Kobata et al in the invention of Kondo to utilize additives disclosed by Kobata et al to make the dispersion, interlayer and the glass laminate with desired properties.

NO claims are allowed.

4. Applicant's arguments filed May 12, 2008 have been fully considered but they are not persuasive. In reference to rejection of claims 1-6, 9-12, 14-21 and 24-26 under 35 U.S.C. 102(b) as being anticipated by Kondo (U. S. Patent 6,329,061 B2) and claims 1-26 under 35 U.S.C. 103(a) as being unpatentable over Kondo (U. S. Patent 6,329,061 B2) in view of Kobata et al (U. S. Patent 6,673,456 B1), Applicants essentially argue that Kondo discloses a laminated glass having an interlayer film in which ultra-fines particles are dispersed. However, in Kondo, there is no description or suggestion of dispersion stabilizers. Furthermore, in Kondo, alcohols are disclosed as solvents for dissolving polyvinyl butyral. However no examples are disclosed in which alcohols are included. Kobata et al disclose an intermediate film for laminated glass containing tindoped indium oxide and/or antimony-doped tin oxide. However Kobata et al do not suggest or disclose using at least one alcohol for preparing dispersions.

Application/Control Number: 10/550,259 Page 4

Art Unit: 1794

These arguments are unpersuasive because Kondo clearly disclose first dispersing ultra-fine particles, such as tin-doped indium oxide particles, in an alcohol solvent and adding to the dispersion polyvinyl butyral and plasticizer to prepare final composition. Thus Kondo's dispersion meets claimed invention wherein polyvinyl butyral is similar to the dispersion stabilizer claimed in the instant invention unless applicants show on record that polyvinyl butyral of Kondo is not a dispersion stabilizer. There is nothing on record showing that above mentioned Kondo's dispersion does not have argued solvent shock properties. Kobata et al disclosure is used to show other additives which can be added to the interlayer forming dispersions as Kondo suggested.

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to D. S. Nakarani whose telephone number is (571) 272-1512. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena Dye can be reached on (571) 272-3186. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/D. S. Nakarani/ D. S. Nakarani Primary Examiner, Art Unit 1794

DSN August 26, 2008.